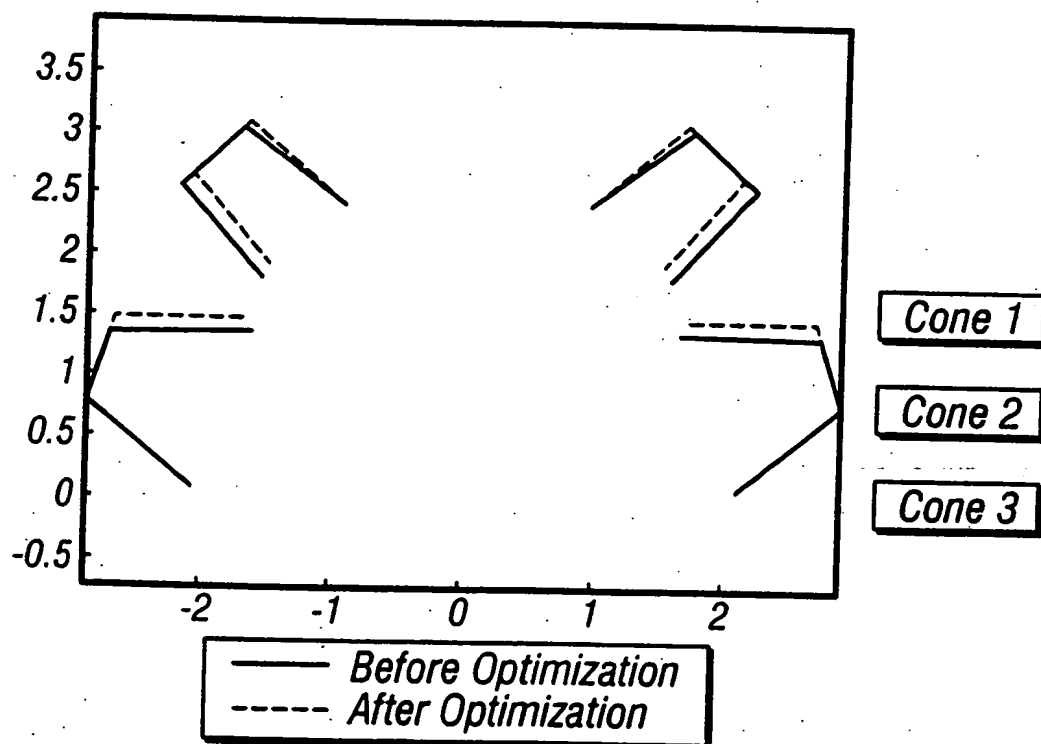
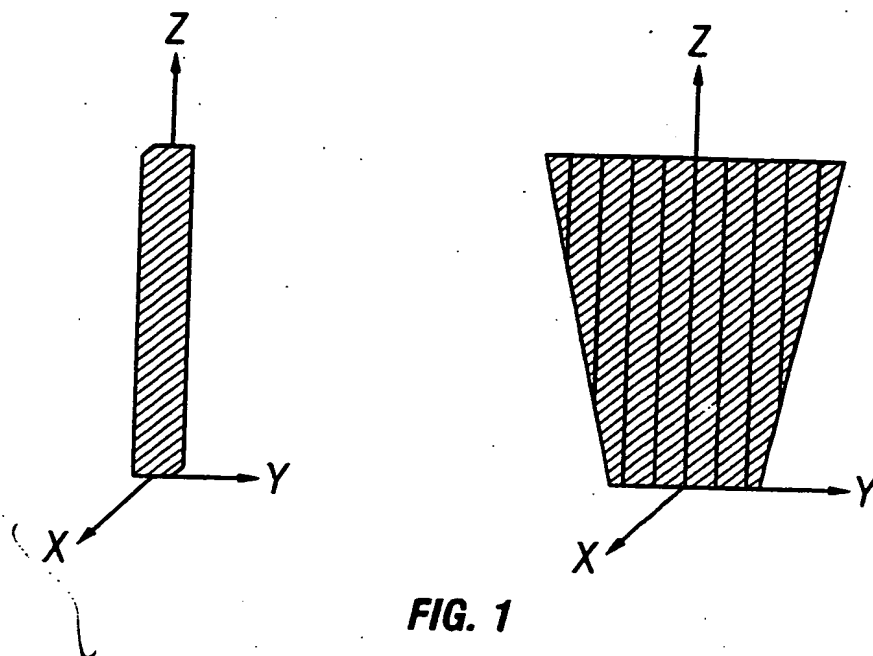
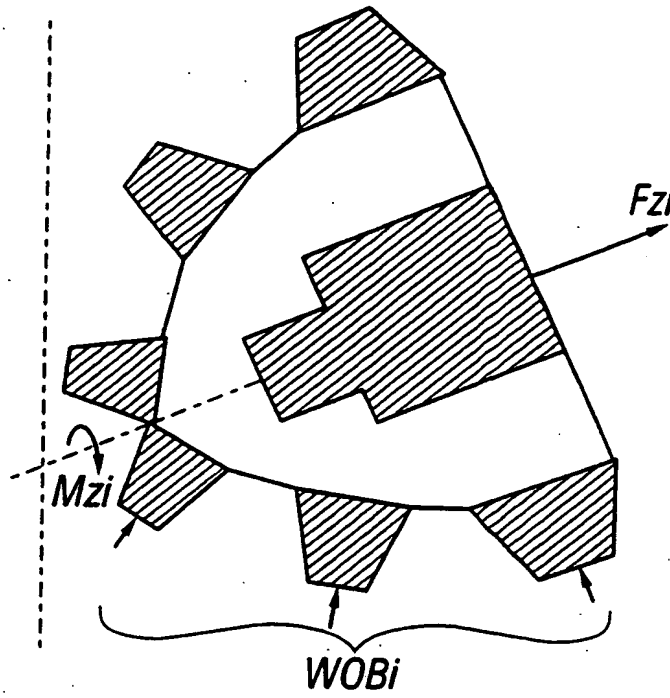


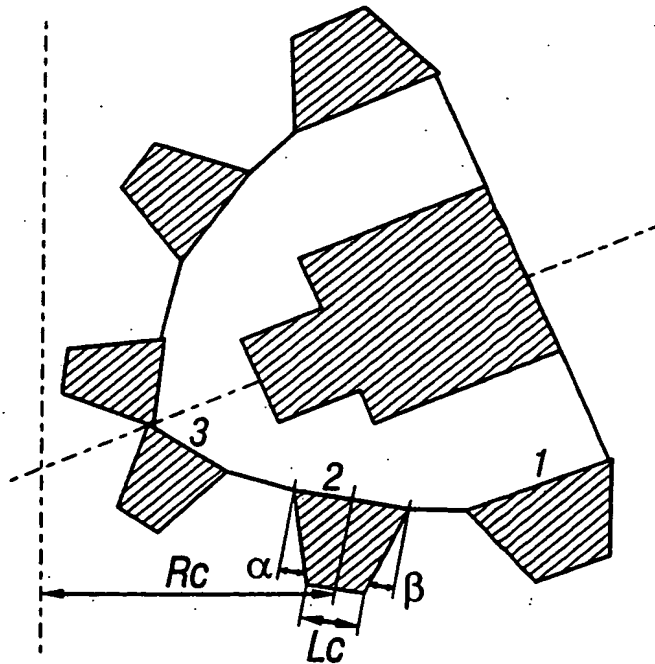
FORCE BALANCED ROTARY-CONE BITS,  
SYSTEMS, DRILLING METHODS, AND  
DESIGN METHODS

Inventor: Shilin Chen  
Date Filed: January 28, 2004  
Attorney's Docket: 074263.0213 (SC-98-025 C3-D)  
Sheet 1 of 8

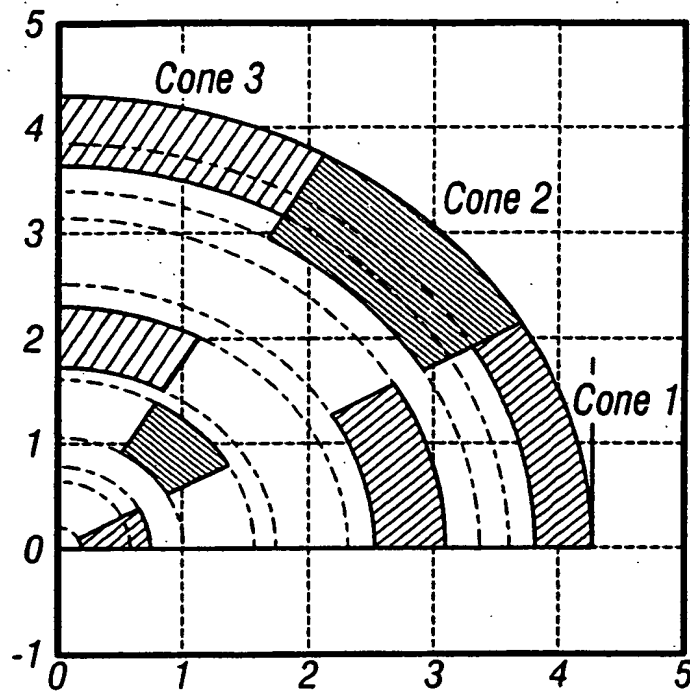




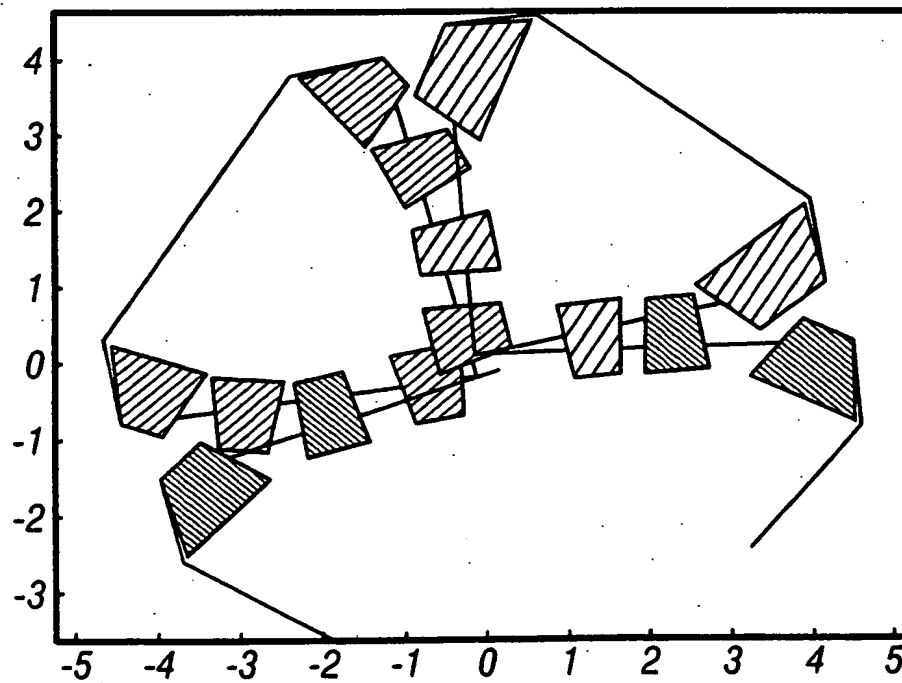
**FIG. 2**



**FIG. 3**



**FIG. 4**



**FIG. 5**

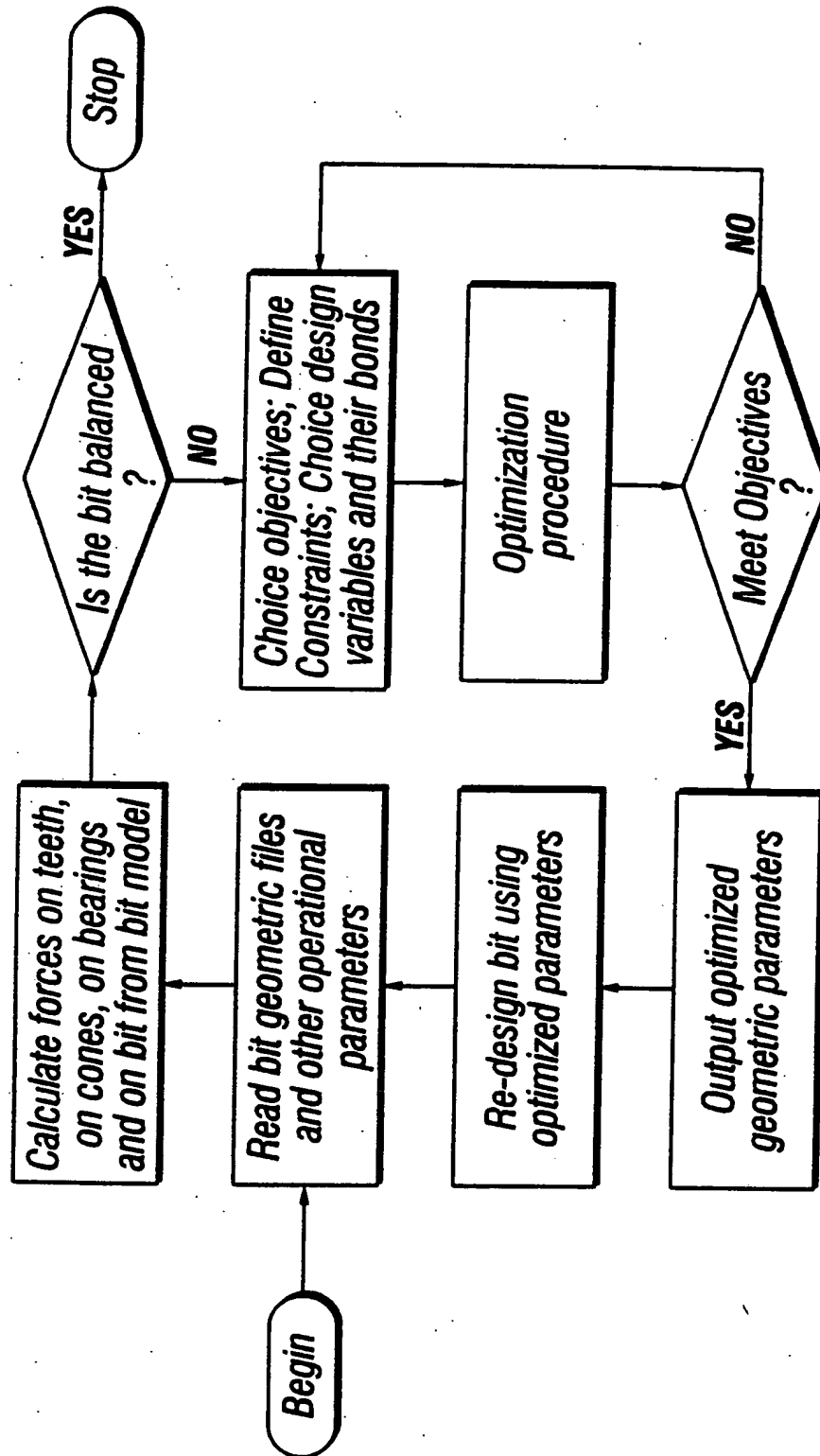


FIG. 6

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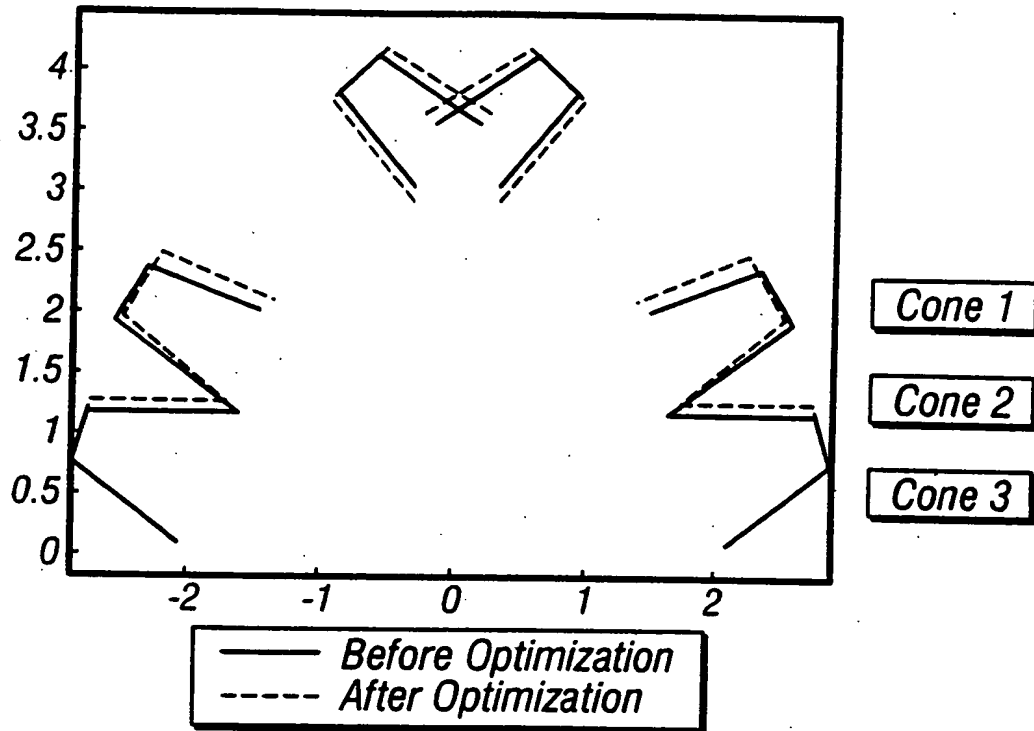


FIG. 7A

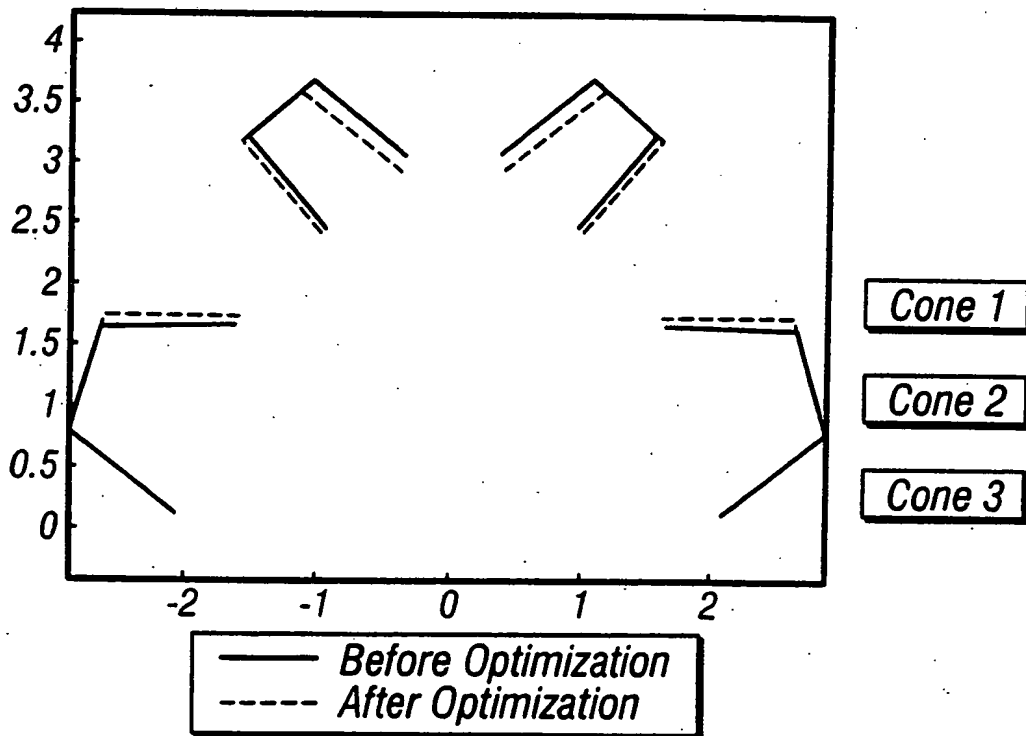
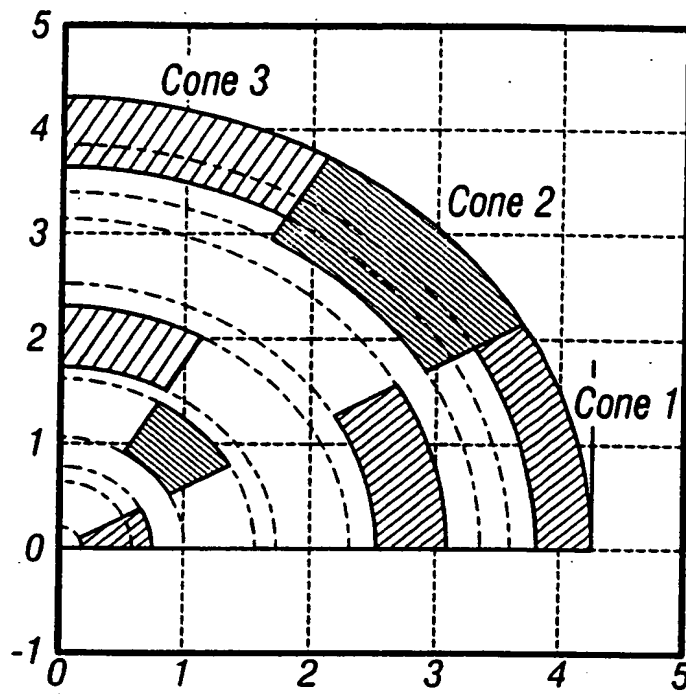
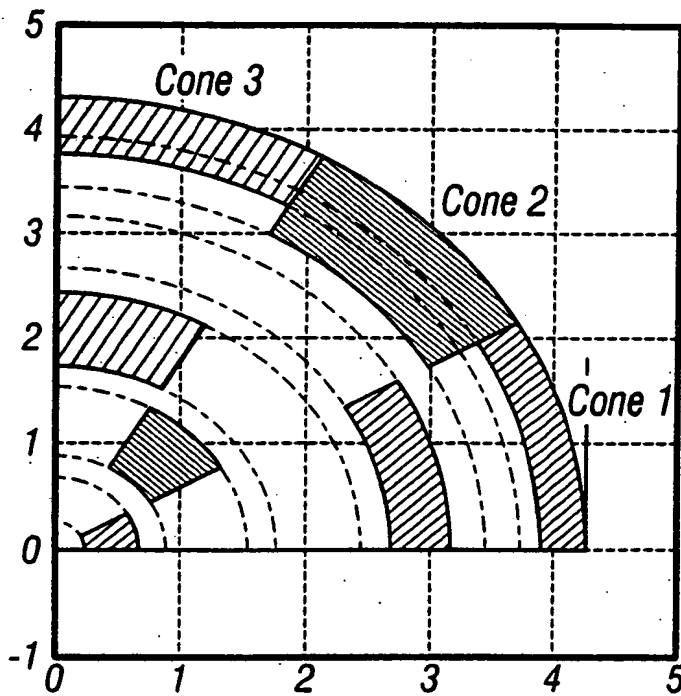


FIG. 7B

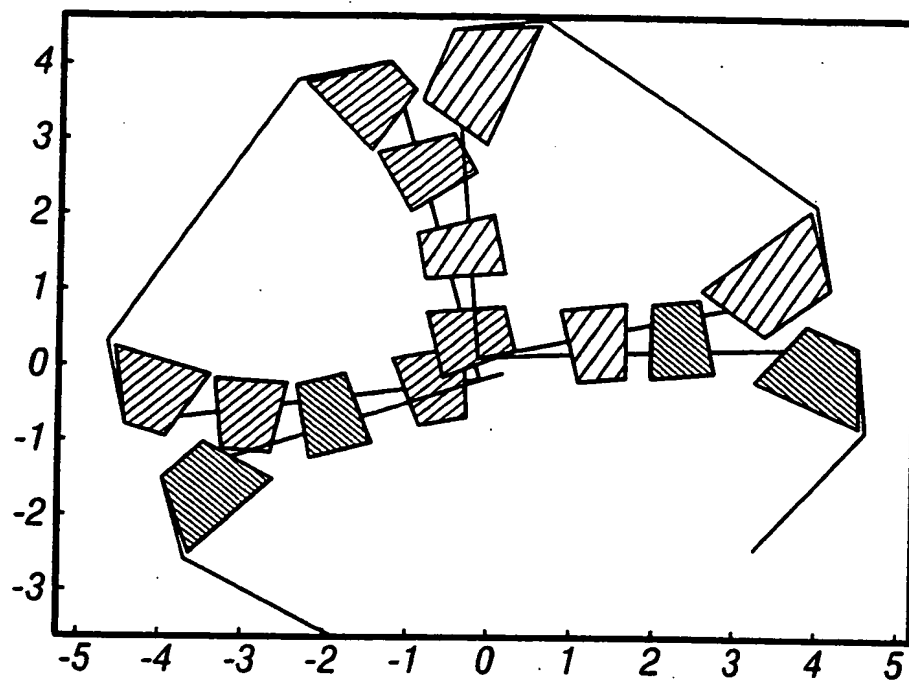
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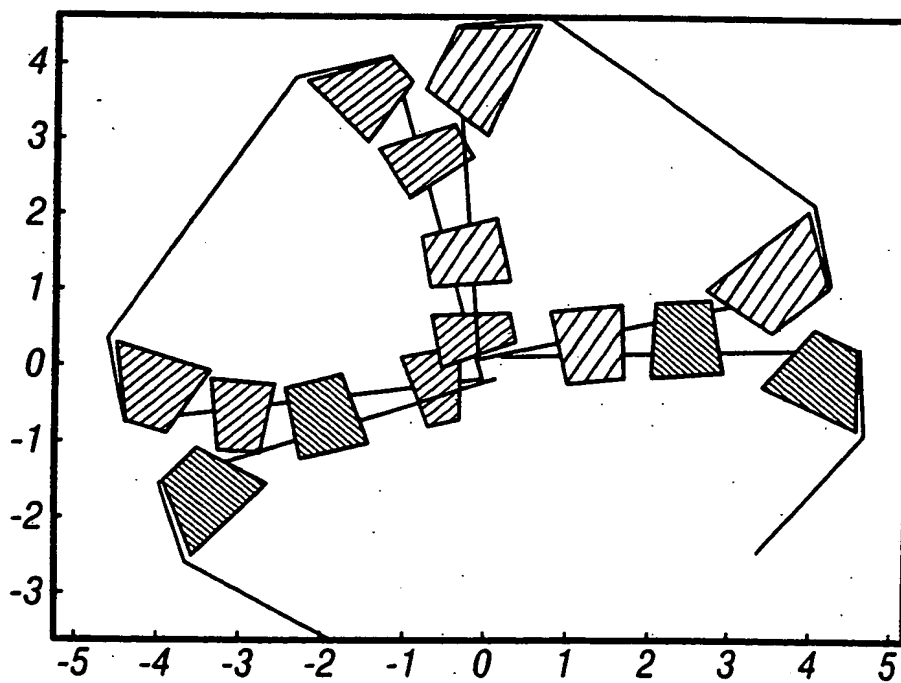
**FIG. 8A**



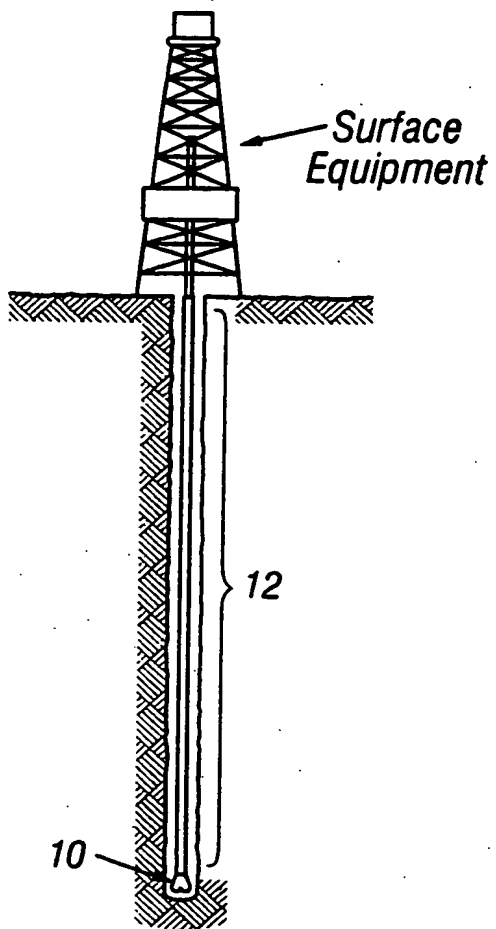
**FIG. 8B**



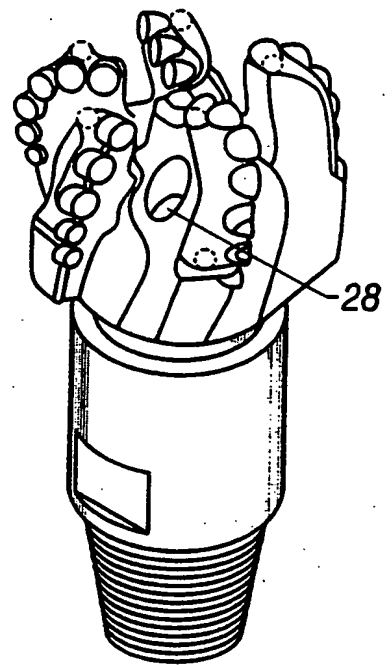
**FIG. 9A**



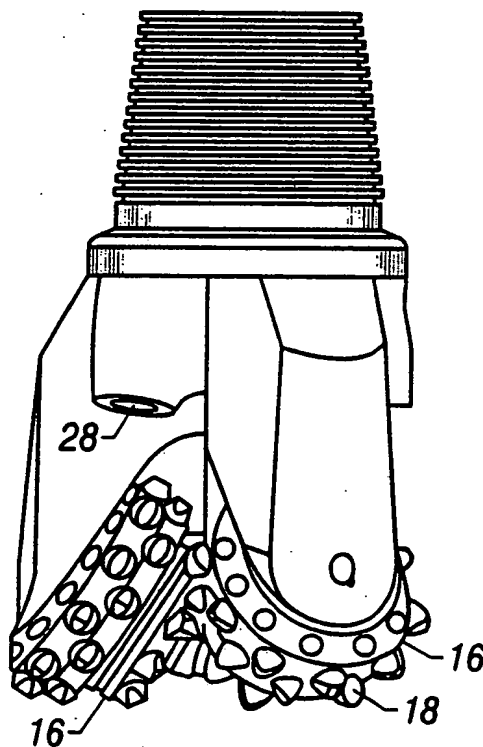
**FIG. 9B**



**FIG. 10**



**FIG. 11**



**FIG. 12**